4	PE		()	1656
JAN .	1 0 2002	IN THE UNITED STATES PATENT ALL Case No. 00-713	ND TRADEMARK OFFICE 1-i16)	PATENT #6/S
g tu ti	he Applicat	Mirkin et Jun 10 2002	Examiner: J. Riley	1/14/0
:	ial No.	09/976,601)	Group Art Unit: 1656	RECEIVED JUN 1 8 2002 ECH CENTER 1600/2900
File For:	•	October 12, 2001) Nanoparticles Having Oligonucleotides) Attached Thereto and Uses Therefor)	Confirmation No.: 4367	CENTER 1600
Box		d Trademark Office , P.O. Box 2327 22202		2900
Ŝir:		TRANSMITTAI	LETTER	
	In rega	ard to the above identified application:		·
	1.	We are transmitting herewith the attached		
		 a. Response to Notice to Comply date b. Copy of the Notice to Comply c. Substitute Sequence Listing (paper d. Return Receipt Postcard 	•	on 3.5" diskette)
	2.	With respect to additional fees:		
· .a		_X A. No additional fee is required B. Attached is a check in the amount	ount of \$	
	3.	General Authorization: Please charge any Account No. 13-2490. A duplicate copy of		ayment to Deposit
	4.	CERTIFICATE UNDER 37 CFR 1.8: To Letter and the paper, as described in paragra States Postal Service with sufficient postage Patent and Trademark Office Box Sequence day of	ph 1 hereinabove, are being depose as first class mail in an envelope	ited with the United addressed to: U.S.
			Emily Miao	

Reg. No. 35,285

McDonnell Boehnen Hulbert & Berghoff

300 South Wacker Drive, 32nd Floor

Chicago, IL 60606

Telephone: (312) 913-0001 Fax: (312) 913-0002



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. 00-713-i16)

In the Application of:)	3 1600
	Mirkin et al.)) Examiner: J. Riley	2000
Serial No.	09/976,601)	_
Filed:	October 12, 2001) Group Art Unit: 1656)	
For:	Nanoparticles Having Oligonucleotides Attached Thereto and Uses Therefor) Confirmation No: 4367	

RESPONSE TO NOTICE TO COMPLY

U.S. Patent and Trademark Office Box Sequence, P.O. Box 2327 Arlington, VA 22202

Sir:

This is in response to the Notice to Comply mailed May 21, 2002. Attached is a paper copy of a substitute Sequence Listing and 3.5" diskette containing a computer readable copy of the Sequence Listing in accordance with 37 C.F.R. § 1.821(e). As requested by the Notice, Sections <220> - <223> have been inserted into SEQ ID NO. 57. In accordance with 37 C.F.R. §§ 1.821-1.825, the computer readable copy is identical to the paper copy filed with the disclosure of the application and the attached Sequence Listing. No new matter has been added to the application as a result of this submission.

Prompt consideration and entry of this response is respectfully requested.

Date: 6402

By:

Emily Miao Reg. No. 35,285

Fax: (312) 913-0002

2/>

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

09/976,601 1656

- FEB 2 7 2002

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-1212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 763-308-42 PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002





UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
WWW.USDIO.GOV

APPLICATION NUMBER FILING/RECEIPT DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NUMBER

09/976,601 10/12/2001 Chad A. Mirkin 00-713-i16

Emily Miao McDonnell Boehnen Hulbert & Berghoff 32nd Floor 300 S. Wacker Drive Chicago, IL 60606



NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of
the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as
indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a
substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content
of the sequence listing information recorded in computer readable form is identical to the written (on paper
or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR
1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase Patentin Software, call (703) 306-2600
- For Patentin Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

A copy of this notice <u>MUST</u> be returned with the reply.

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY





RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/976,601

DATE: 02/14/2002

TIME: 15:49:51

Input Set : A:\00-713-i16seq list.txt

Output Set: N:\CRF3\02142002\1976601.raw Does Not Comply

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Corrected Diskette Needed
 3 <110> APPLICANT: Mirkin, Chad A.
         Letsinger, Robert L.
5
         Mucic, Robert C.
         Storhoff, James J.
 6
7
         Elghanian, Robert
         Taton, Thomas A.
10 <120> TITLE OF INVENTION: NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO
        AND USES THEREFOR
11
13 <130> FILE REFERENCE: 00-713-i16
15 <140> CURRENT APPLICATION NUMBER: 09/976,601
16 <141> CURRENT FILING DATE: 2001-10-12
18 <150> PRIOR APPLICATION NUMBER: 09/603,830
19 <151> PRIOR FILING DATE: 2000-06-26
21 <150> PRIOR APPLICATION NUMBER: 09/344,667
22 <151> PRIOR FILING DATE: 1999-06-25
24 <150> PRIOR APPLICATION NUMBER: 09/240,755
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25 <151> PRIOR FILING DATE: 1999-01-29 27 <150> PRIOR APPLICATION NUMBER: PCT/US97/12783

28 <151> PRIOR FILING DATE: 1997-07-21

30 <150> PRIOR APPLICATION NUMBER: 60/031,809

31 <151> PRIOR FILING DATE: 1996-07-29

33 <150> PRIOR APPLICATION NUMBER: 60/200,161

34 <151> PRIOR FILING DATE: 2000-04-26

36 <160> NUMBER OF SEQ ID NOS: 64

38 <170> SOFTWARE: Microsoft Word 2000

ERRORED SEQUENCES

763 <210> SEQ ID NO: 57

764 <211> LENGTH: 12

765 <212> TYPE: DNA

766 <213> ORGANISM: Anthrax

768 <400> SEQUENCE: 57

E--> 769 taacaatmat cc

12

n" used see Hen # 9 on ERROR Summery SHEET.







1656

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/976,601

DATE: 02/14/2002 TIME: 15:49:51

Input Set : A:\00-713-i16seq list.txt

Output Set: N:\CRF3\02142002\1976601.raw Does Not Comply

```
Corrected Diskette Needed
 3 <110> APPLICANT: Mirkin, Chad A.
        Letsinger, Robert L.
        Mucic, Robert C.
5
        Storhoff, James J.
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18 <150> PRIOR APPLICATION NUMBER: 09/603,830
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21 <150> PRIOR APPLICATION NUMBER: 09/344,667
22 <151> PRIOR FILING DATE: 1999-06-25
24 <150> PRIOR APPLICATION NUMBER: 09/240,755
25 <151> PRIOR FILING DATE: 1999-01-29
                                        . . 7--
27 <150> PRIOR APPLICATION NUMBER: PCT/US97/12783
28 <151> PRIOR FILING DATE: 1997-07-21
30 <150> PRIOR APPLICATION NUMBER: 60/031,809
31 <151> PRIOR FILING DATE: 1996-07-29
33 <150> PRIOR APPLICATION NUMBER: 60/200, 161
34 <151> PRIOR FILING DATE: 2000-04-26
36 <160> NUMBER OF SEQ ID NOS: 64
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ERRORED SEQUENCES

763 <210> SEQ ID NO: 57

764 <211> LENGTH: 12

765 <212> TYPE: DNA

766 <213> ORGANISM: Anthrax

38 <170> SOFTWARE: Microsoft Word 2000

768 <400> SEQUENCE: 57

-> 769 taacaatmat cc

"used see Hen # 9 on ERROR Summary SHEET.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/976,601

DATE: 02/14/2002

TIME: 15:49:52

Input Set : A:\00-713-i16seq list.txt
Output Set: N:\CRF3\02142002\1976601.raw

L:769 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:57



Raw Sequence Listing Error Summary.

FEB 2 7 2002 TECH CENTER 1600/2900

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER:	09/976,60
ATTN: NEW RULES CASI	es: Please disregard english "Alpha"	HEADERS, WHICH WERE INS	ERTED BY PTO SOFTWAR
1Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wn s was retrieved in a word processor after crea prevent "wrapping."	apped" down to the next line. The strength of	his may occur if your file margin to .3; this will
2Invalid Line Leng	th The rules require that a line not exceed 72 c	haracters in length. This include	les white spaces.
3Misaligned Amine Numbering	The numbering under each 5th amino acid is use space characters, instead.	misaligned. Do not use tab co	des between numbers;
4Non-ASCII	The submitted file was not saved in ASCII(lensure your subsequent submission is sav	DOS) text, as required by the Sed in ASCII text.	· N
5Variable Length	Sequence(s)contain n's or Xaa's repres each n or Xaa can only represent a single residue having variable length and indicate i	enting more than one residue. It residue. Please present the main the <220>-<223> section that	ximum number of each
6PatentIn 2.0 "bug"	A "bug" in Patentin version 2.0 has caused to sequences(s) Normally, Patentine previously coded nucleic acid sequence. Plet the subsequent amino acid sequence. This a Artificial or Unknown sequences.	ntIn would automatically genera case manually copy the relevant	ate this section from the <220>-<223> section to
7Skipped Sequence (OLD RULES)	s Sequence(s) missing. If intentional, p (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTIC (xi) SEQUENCE DESCRIPTION:SEQ ID N This sequence is intentionally skipped	CS: (Do not insert any subheadi	shown) ngs under this heading)
•	Please also adjust the "(ii) NUMBER OF SE	QUENCES:" response to inclu	de the skipped sequences.
8Skipped Sequence (NEW RULES)	s Sequence(s) missing. If intentional <210> sequence id number <400> sequence id number 000	, please insert the following line	s for each skipped sequence.
9Usc of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected i Per 1.823 of Sequence Rules, use of <220>-< In <220> to <223> section, please explain lo	<223> is MANDATORY if n's	
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid scientific name (Genus/species). <220>-<22 is Artificial Sequence	<213> responses are: Unknown 3> section is required when <7	, Artificial Sequence, or 13> response is Unknown or
11Use of <220>	Sequence(s) missing the <220> "F Use of <220> to <223> is MANDATORY if "Unknown." Please explain source of geneti (See "Federal Register," 06/01/1998, Vol. 63	c material in <220> to <223> se	"Artificial Sequence" or ection.
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of resulting in missing mandatory numeric identisting). Instead, please use "File Manager" of	tifiers and responses (as indicate	ed on raw sequence